

Purchase Order Receipt Listing

Tuesday, January 10, 2017 8:53:28 AM

All amounts are calculated in domestic currency.

Page 1 of 1

All Vendors PO ID PO34792 All Receipt Dates All Line Item Types
All Item ID/GL WOs - All Rec. Employees All Currencies
Grouped by Vendor ID

METAUX SOLUTIONS INC
2625 BOUL JACQUES CARTIER EST
LONGUEUIL, QUEBEC
J4N 1L7 Tel.: 450 641-3330

Shipping Order 06/01/2017

Order : 121805
Reference : 34792
Ship : PICK UP / PICK UP

Customer: 6323336

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Ship To

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Qty. Delive	B/O Qty
SF14124	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N 304 FLA .250 X .500 5 X 12.33' HT;56900655	61.65	61.65	0
TP12A2	A-2 PLATE TFA 1/2" THICK 2 X 1.25" -0+0 X 144" HT; PM664947	54	54	0
MP124130N	4130 NORM PLATE .500 THICK AMS 6345 30 X 3" X 14" HT;248571-06	8.7	8.7	0

SHIP JOURNEY COLLECT
JP

SOY01-10

Shipping : _____
Package No : _____
Merchandise Received: _____

Ref. : _____

 Bollinghaus Steel, SA DIN EN ISO 9001:2008 TÜV CERT No. 01 100 030458		Abnahmeprüfzeugnis/Mill Test Certificate/Certif. de Qualidade						Nr./I-Nr./Nr.							
		EN 10204:2004 / 3.1						0000119911							
		Unsere Innere Verweisung / Our Int. Ref/ N/ ref int						Datum / Date / Data							
		5600031591 000040						26.09.2016							
Normen / Standards / Normas															
TYPE 304/UNS S30400 und TYPE 304L/UNS S30403 acc. to ASTM A479/A479M-16, A276/A276M-16a, SAE-AMS-QQ-S 7630, AMS5639H, ASME SA479/SA479M, ASME SA278, ASTM A182/A182M-16a F304/304L, A193/A193M-16 Cl. 1Gr.B8, ASTM A314-15, ASTM A320/A320M-15a, DOD-F24669/6, ASME SA182/SA182M, ASME SA 193/SA193M, ASME SA320 CL 1Gr.B8, ASTM A262-15 Practice E, grain size as per ASTM E112, NACE MR 0175, Mercury free statement, not weld repair statement, contents of N, Co, Mo and Cu., in hot rolled, solution annealed, pickled, straightened execution as per ASTM A184/A184M-16															
Kunde / Customer / Cliente					Endgültiger Kunde / Final Customer / Cliente Final										
Bestell Nr./Order Nr./Enc.Nr. C105024					Bestell Nr./Order Nr./Enc.Nr. C105024.01										
Produktgruppe / Product Group / Grupo Produto					Gewicht / Weight / Peso			Bunde / Bundle / Atados							
AISI 304/L FLAT 1/4 X 1/2"					1.059 lb			01							
Werkstoff-Nr. Material no. Qualidade		Werkstoff-Normbezeichnung / Material standard grade / Norma do material X 2 CrNi 18-9													
Beschreibung / Description / Descrição															
Stahlrohr flat bars, hot rolled, solution annealed, straightened, pickled. U9 DRAR 252.225-7009; MELT SOURCE: United Kingdom / MFG: Portugal DAS 14 9-89 17/01/12															
Stahlzettel Nr. Gussnr. / Fusão nr.		Chemische Analyse in % / Chemical composition in % / Análise química em %													
5600031591 SCH 024695 EAF+AOD		C	0.030	Si	0.228	Mn	1.830	P	0.030	S	0.026	Cr	18.100	Ni	0.100
		Mo	0.430	Co	0.205	Cu	0.290	N	0.084	Ti	0.003	Nb	0.021	Al	0.006
Proben Nr. Test no. Ahofra no.		ASTM E399			ASTM A370										
		Kerbsschlagarbeit Impact Test Resiliénde (Charpy V)			Streckgrenze Yield point Tensão limite	Dehngrenze 1% point Limite de extensão	Zugfestigkeit Tensile strength Tensão de rotação	Dehnung Elongation Alongamento		Einschüttung Reduction of area Coef. Estricção					
		[J]			[Ksi]	[Ksi]	[Ksi]	[%]	[%]	[%]					
4082619.01.01					47.1	54.5	93.5	56.1	59.3	72.9					
Visuelle Kontrolle Visual inspection Inspección visual		<input checked="" type="checkbox"/>	OK	ASTM E10	ASTM A262 Practice E			Wärmebehandlung Heat treatment Tratamiento térmico							
ASTM A404 Maßkontrolle Dimensional inspection Inspeção dimensional		<input checked="" type="checkbox"/>	Ok	Härte Hardness Dureza [HB]	Kaltbastverständigkeit IC Test	Werkstoffverständigkeit Quality Control Representative Inspector da Qualidade	Annexed Quenched 1900 °F (1050 °C) (water quenched)								
Verwechslungsprüfung Test of identity Teste de identificação		<input checked="" type="checkbox"/>	OK	ASTM E112 Korngröße Grain size Tamanho de grão	Corrosion Intergranular	Nuno Silva (D - NS)									
Bemerkungen / Remarks / Observações Country of origin: Portugal. No weld repair done. Materíal is free of mercury and radition contamination.															
Hiermit bestätigen wir, dass das Material der oben genannten Spezifikation entspricht. We confirm that this material meets the specification according to the mentioned standards. Confirmamos que este material respeita as especificações de acordo com as normas referidas.															

LHHTBL

NUCOR STEEL

4537 S. NUCOR ROAD; CRAWFORDSVILLE, IN 47933

REPORT OF TESTS

ATTN:	DATE: 1/20/15
FAX:	
SOLD TO: Factory Steel and Metal Supply	CUSTOMER ORDER # 081414MC
SIZE: 0.500" by 36" steel sheet	PRODUCT: HRPO light oil FINE GRAIN AIRCRAFT QUALITY 4130 AMS 6345 Rev C ASTM-A 506 ASTM-A-635 AMS 2301 Rev J [successor to MIL-S-18729 COND N.] NORMALIZED OR OTHERWISE HEAT TREATED

AMS 6345

COIL #	HEAT #	YIELD	TENSILE	ELONG
1961550	248571-06	81.5 ksi	115 ksi	20%

TEST	RESULT	
*Average austenite grain size	#8	Pass
Decarburization (P/F)		Pass
*Bend Test (P/F)		Pass
*Response to Heat Treatment (P/F)	45 HRC	Pass
*AMS 2301 Quality Freq/Sev (P/F)	0/0	Pass

DAS
14
9-89

17/01/12

*These tests performed by outside lab, ISO 17025 certified.

HEAT #	C	Mn	P	S	Al	Si	N	Cr	Ni	Cu	Mo
248571	0.287	0.55	0.006	0.000	0.028	0.208	0.007	0.860	0.017	0.043	0.165

WE HEREBY CERTIFY THE ABOVE
IS CORRECT AS CONTAINED IN
THE RECORDS OF THE CORPORATION.

Melted and Manufactured in the USA



Cold Mill Metallurgist

QF-0200, 10/17/05



Jérôme Primeau
Représentant aux ventes
j.primeau@metauxsolutions.com

Pack List: 108220
Packing List Date: 11/22/2016
Page: 4 of 5
Account No: 101411

2625, boul. Jacques Cartier Est
Longueuil (Québec) J4N 1L7
Tél.: 450 641-3330 Téléc.: 450 641-3332
Tél.: 514 633-8010 Téléc.: 514 633-8044
T 800 967-2003

www.metauxsolutions.com

Sales Order: 145605

Product Description

A2-15000

1 1/2 X 33 5/8" X 137 7/8" A2 PLATE

AIRTRUE DELUXE

ASTM A-681-08

DFARS Compliant

PLATE#: 413866A

Country of Origin USA

C -	0.9800	Mn -	0.6700	P -	0.0200	S -	0.0020	BHN	224.00
Cr -	4.9400	Mo -	1.0000	Cu -	0.0800	V -	0.3700	Si - W -	0.3300 0.0500
Ni - 0.2000									

Customer PO: 41362-JF

Shipped Pcs

Shipped Lbs

1.00 2,005.00

Back Ordred 0.00

Drop Ship Ref:
PO LINE

Product Description

A2-05000

1/2 X 32 11/16" X 136 1/2" A2 PLATE

AIRTRUE DELUXE

ASTM A-681-08

DFARS Compliant

PLATE#: 413831A

Country of Origin USA

C -	1.0100	Mn -	0.6800	P -	0.0220	S -	0.0020	BHN	230.00
Cr -	4.9900	Mo -	0.9900	Cu -	0.1300	V -	0.3000	Si - W -	0.3500 0.0600
Ni - 0.3100									

Shipped Pcs

Shipped Lbs

1.00 664.00

Back Ordred 0.00

PO LINE

17/02/12

Product Description

D2-20000

2 X 33" X 126 3/8" D2 PLATE

ARISTOCRAT DELUXE

ASTM A-681-08

PLATE#: 412741A

Country of Origin CHINA

C -	1.5400	Mn -	0.2600	P -	0.0230	S -	0.0010	BHN	221.00
Cr -	11.3800	Mo -	0.7700			V -	0.9400	Si -	0.2300

Shipped Pcs

Shipped Lbs

1.00 2,346.00

Back Ordred 0.00

PO LINE

Product Description

MSP12500

1-1/4 x 34 1/8" x 144 13/16" Marshalloy Standard Plate
4140/42 PreHard

MARSHALLOY STANDARD DELUXE

ASTM A-829

PLATE#: 414794A

Country of Origin SLOVENIA

C -	0.4040	Mn -	0.8140	P -	0.0080	S -	0.0005	BHN	274.00
Cr -	1.0000	Mo -	0.1600	Cu -	0.1410	V -	0.0420	Si -	0.2380 0.1400

Shipped Pcs

Shipped Lbs

1.00 1,787.00

Back Ordred 0.00

PO LINE

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MSTEEL-A2-B0.500X1.250 PO / BATCH NO.: 34792/136553
 DATE: 17/01/12

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 23'
 QUANTITY INSPECTED: 23'
 QUANTITY REJECTED: _____

THICKNESS ORDERED: .500
 THICKNESS RECEIVED: .525
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>B1 MSTEEL-A2-</u>
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>.525</u>
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>A681</u>
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>HEAT# PM1664997</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>MSTEEL-A2-B0.500X1.250</u>
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>H136553</u>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
DAS INSPECTED BY: <u>14</u> <u>9-09</u>	SIGNED OFF BY: _____
DATE: <u>17/01/12</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304 B0.250X.500
 DATE: 17/01/12

PO / BATCH NO: 34792/136553

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 661.300
 QUANTITY INSPECTED: 661.300
 QUANTITY REJECTED: _____

THICKNESS ORDERED: .250
 THICKNESS RECEIVED: .250
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> N	<u>304</u>
CORRECT THICKNESS	<input checked="" type="checkbox"/> N	<u>.250</u>
PHOTO REQUIRED	<input checked="" type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> N	<u>ASTM A271</u> <u>ASTM A240</u>
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> N	<u>HEAT # 56900655</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> N	<u>M304 B0.250X0.500</u>
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> N	<u>136553</u>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DURA	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
DAS 14 INSPECTED BY: <u>9-69</u>	SIGNED OFF BY: _____
DATE: <u>17/01/12</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 4413DNB0.500X3.00
 DATE: 17/01/12

PO / BATCH NO.: 34792/136553

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 35
 QUANTITY INSPECTED: 35
 QUANTITY REJECTED: _____

THICKNESS ORDERED: .500
 THICKNESS RECEIVED: .500
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> O N	
CORROSION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> O N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> O N	<u>4130</u>
CORRECT THICKNESS	<input checked="" type="checkbox"/> O N	<u>.500</u>
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> O N	<u>MIL-S-7758 AMS 6.345</u>
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y N	<u>HEATH 248571-D6</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> O N	<u>4413DNB0.500X3.000</u>
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> O N	<u>M136553</u>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>14</u> <u>9.99</u>	SIGNED OFF BY: _____
DATE: <u>17/01/12</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO34792

Purchase Order Date 1/4/2017 8:15:47 AM
PO Print Date 1/4/2017

Page Number 1 of 2

Order From : VC-MET002

METAUX SOLUTIONS
2625 BOUL JACQUES-CARTIER EST
LONGUEUIL, QC J4N 1L7
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

JAN 02 2017

E-MAILED

Contact Name
Vendor Phone 800 558 8858

Ship To Contact
Ship To Phone
Ship Via: Journey Freight
Ship Acct:

Buyer	Chantal Lavoie
Customer POID	
Customer Tax #	10127-2607
Terms	Net 30
Currency	CAD
FOR	Destination-Collect

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
	Line Comments	Promise Date					
	Delivery Comments						
3	M304B0.250x0.500	304 BAR .250 x .500	1/10/2017 Yes 1/10/2017	60.00 f <i>new 61.45</i>		\$4.25	\$255.00
					Line Total:		\$255.00
4	MSTEEL-A2-B0.500X1.250	AISI A2 TOOL STEEL BAR, 0.500 X 1.250	1/10/2017 Yes 1/10/2017	24.00 f		\$12.38	\$297.00

PO Instructions:

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO34792**

Purchase Order Date 1/4/2017 8:15:47 AM
PO Print Date 1/4/2017

Page Number 2 of 2

Order From : VC-MET002

METAUX SOLUTIONS
2625 BOUL JACQUES-CARTIHER EST
LONGUEUIL, QC J4N 1L7
CA

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 800 558 8858

Buyer Chantal Lavoie

Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD

FOB Destination-Collect

Ship To Contact
Ship To Phone
Ship Via: Journey Freight collect
Ship Acct:

9	M4130NB0.500X03.000	4130 Bar 0.500 x 3.00	✓ 1/10/2017 Yes 1/10/2017	35.00 f	✓	\$34.22	\$1,197.70
---	---------------------	-----------------------	---------------------------------	---------	---	---------	------------

MATERIAL: AISI 4130N STEEL BAR PER MIL-S-6758 OR AMS 6345/6348/6370/6528

30 PCS CUT TO SIZE 14"

10	71401-45	PROCUREMENT QUALITY CLAUSES	✓ 1/10/2017 No 1/10/2017	1.00	✓	\$0.00	\$0.00
----	----------	--------------------------------	--------------------------------	------	---	--------	--------

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

Line Total: \$1,197.70

SP17-01-10

Line Total: \$0.00

PO Total: \$1,749.70

U

CL

PO Instructions:

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 3

Change Date: 1/4/2017